

The Commonwealth of Massachusetts  
Executive Office of Health and Human Services  
Department of Public Health  
William A. Hinton State Laboratory Institute  
305 South Street, Jamaica Plain, MA 02130

DEVAL L. PATRICK  
GOVERNOR

TIMOTHY P. MURRAY  
LIEUTENANT GOVERNOR

JUDYANN BIGBY, MD  
SECRETARY

JOHN AUERBACH  
COMMISSIONER

10/26/2011

Aaron Strojny  
Assistant District Attorney, Bristol County

Dear ADA Strojny,

Enclosed is the information you requested in regards to Commonwealth vs. Under Investigation. Included are copies of the following:

1. Curriculum Vitae for Annie Dookhan and Kate Corbett.
2. Drug Analysis Laboratory Receipt.
3. Control Cards with analytical results for samples # [REDACTED]
4. Analysis sheets with custodial chemist's hand notations and test results.
5. Infra-Red Spectral analytical data for samples # [REDACTED] (confirmatory test).
6. GC/Mass Spectral analytical data for samples # [REDACTED]

Annie Dookhan was the custodial and confirmatory chemist and performed the preliminary testing and net weight for this sample. Kate Corbett was the confirmatory chemist and analyzed the GC/MS data for this sample.

If you have any questions about these materials, please call me at the number below.

Sincerely,

A handwritten signature in black ink, appearing to read "Annie Dookhan".  
Annie Dookhan  
Chemist  
Drug Analysis Lab  
Jamaica Plain, MA. 02130  
(617) 983-6622

# Curriculum Vitae

## Annie Khan (Dookhan)

### **Education:**

University of Massachusetts, Boston, Ma, Master of Science in Chemistry.

University of Massachusetts, Boston, Ma, Bachelor of Science in Biochemistry.

### **Experience:**

2003 – present

#### Chemist I, II, Massachusetts Department of Public Health, Drug Analysis Laboratory

\*Completed six-week training course conducted by senior staff within the Department of Public Health, Drug Analysis Laboratory.

\*Appointed Assistant Analyst by Assistant Commissioner of Public Health, 2004.

\*Responsible for the identification of illicit drugs to determine violations of harmful and narcotic drug laws.

\*Trained in the use of complex analytical instrumentation, microscopes and balances for the purpose of drug analysis.

\*Maintenance and repairs of all analytical instruments.

\*Responsible for the Quality Control of all analytical instruments, reagents and controls/standards.

\*Oversee the Quality Control/Quality Assurance program for the Drug Lab.

\*Writing, revising and reviewing Standard Operating Procedures (SOPs) and Protocols.

\*Notary Public.

\*Qualified as an expert witness in Massachusetts Courts and U.S. District Court

2001 – 2003

#### QC Analyst I, II, UMMS-Massachusetts Biologic Laboratory, QC Material Control

\*Completed proficiency training conducted by a member of the staff within the MLB Quality Control and Quality Assurance Department.

\*Method Development for creating new techniques and enhancing vaccines for the QC Dept. and FDA.

\*Writing, revising and reviewing Standard Operating Procedures (SOPs).

\*Trained and supervised new chemists and interns for the department.

\*Routine QC testing of products for the FDA.

\*Trained in the use of complex analytical instrumentation, and balances for the purpose of QC analysis for product and validation projects.

\*Calibration, preventive maintenance, QC and QA of analytical instrumentation.

\*Complete testing of chemicals for Vendor Validation Project for the FDA.

\*Compendial testing and interpretation of the USP, ACS, FCC, AOAC, Merck Index, PDR, etc.

### **Additional Training:**

Dept. of Justice – Forensics Professionals. (numerous trainings)

GLP/GMP training with Massachusetts Biologic Laboratory.

QC/QA training according to FDA Codes and Regulations.

GC and GC/MS trainings with Agilent Technologies and Restek.

HPLC and LC/MS/MS trainings with Waters Cooperation.

FTIR training with Spectros.

TOC training with MBL and Sievers.

### **Association:**

American Chemical Society (ACS)

Northeastern Association of Forensics Science (NEAFS)

# Curriculum Vitae

Kate A. Corbett

## Education

### **Bachelor of Science Degree, CHEMISTRY May 2003**

**MERRIMACK COLLEGE**

Coursework included: Organic Chemistry, Inorganic Chemistry, Quantitative Analysis, Instrumental Analysis, Physical Chemistry, Physics, Calculus

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## Employment

### **Chemist II State Laboratory Institute (March 2008-Present)**

Massachusetts Department of Public Health

Drug Analysis Laboratory

- Responsible for the identification of substance and trafficking substances to determine violation of the Massachusetts drug laws
- Responsible for the identification of pharmaceuticals to determine violation of the Massachusetts drug laws
- Operate analytical instrumentation, microscopes and balances for forensic drug analysis

### **Chemist I State Laboratory Institute (2005-March 2008)**

Massachusetts Department of Public Health

Drug Analysis Laboratory

- Responsible for the identification of substance to determine violation of the Massachusetts drug laws
- Operate analytical instrumentation for the purpose of performing forensic drug analysis
- Successfully completed an eight week training course in the analysis of drugs conducted by senior staff of the Department of Public Health, Drug Analysis Laboratory
- Appointed an assistant analyst for the Department of Public Health, Drug Analysis Laboratory in 2005.

### **Research Associate (September 2003 – August 2005)**

SENSOR TECHNOLOGIES, INC - Shrewsbury, MA

- Prepared chemistries used in making sensor beads
- Generated and examined sensors employing fluorescence spectroscopy
- Performed protein, dye and sugar assays using UV/VIS spectrophotometry
- Carried out titrations on ricin using fluorescence correlation spectroscopy
- Statistical analysis of experimental data

### **Intern (March 2003 – August 2003)**

MASSACHUSETTS STATE POLICE CRIME LABORATORY - Sudbury, MA

- Assisted in the gathering of case files to fulfill the National Institute of Justice's No Suspect Backlog Reduction Grant
- Observed in the Evidence, Criminalistics, DNA, Drug, Trace, Toxicology, and Bomb/Arson Units



No. [REDACTED]

Date Analyzed:

12/28/10

City: New Bedford Police Dept.

Officer: Detective KELLY ALMEIDA

Def: [REDACTED]

Amount:

No. Cont: 1 Cont: pb

Subst: SUB

Date Rec'd: 12/02/2010

No. Analyzed:

Gross Wt.: 18.86

Net Weight: 13.84

# Tests: 2 ~~pass~~  
• 2 ~~fail~~

Prelim: Cocaine

Findings:

Cocaine

# DRUG POWDER ANALYSIS FORM

SAMPLE # [REDACTED] AGENCY New Bedford ANALYST ADD

No. of samples tested: \_\_\_\_\_ Evidence Wt. \_\_\_\_\_

PHYSICAL DESCRIPTION: Gross Wt ( ): 15.1068

White powdered substance  
11-PC

Gross Wt ( ): \_\_\_\_\_

Pkg. Wt: \_\_\_\_\_

Net Wt: 13.8402

netwt = 13.8288

Mettler AB104 1117132802

Omega 10110 1125493269

## PRELIMINARY TESTS

### Spot Tests

Cobalt  
Thiocyanate (+)

### Microcrystalline Tests

Gold  
Chloride (+)

Marquis —

TLTA (+)

Froehde's —

### OTHER TESTS

Mecke's —

IR (+) cocaine HCl (ABD)

## PRELIMINARY TEST RESULTS

RESULTS cocaine

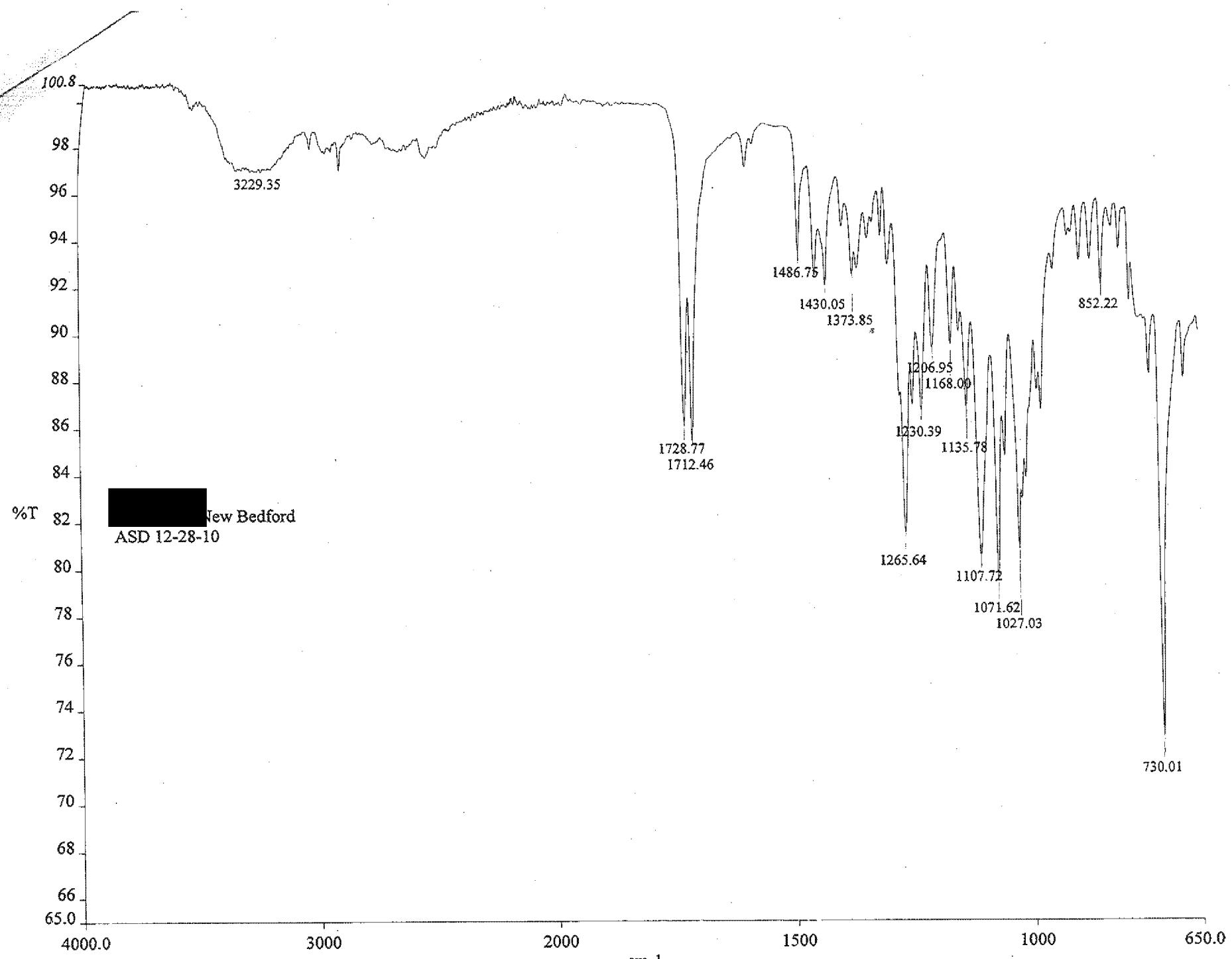
DATE 12-23-10

## GC/MS CONFIRMATORY TEST

RESULTS cocaine

MS  
OPERATOR KAC

DATE 12-28-10



Date: Wed Dec 29 2010

New Bedford.sp

ary: C:\pel\_data\spectra\██████████  
ary: C:\pel\_data\libs\DL.idx

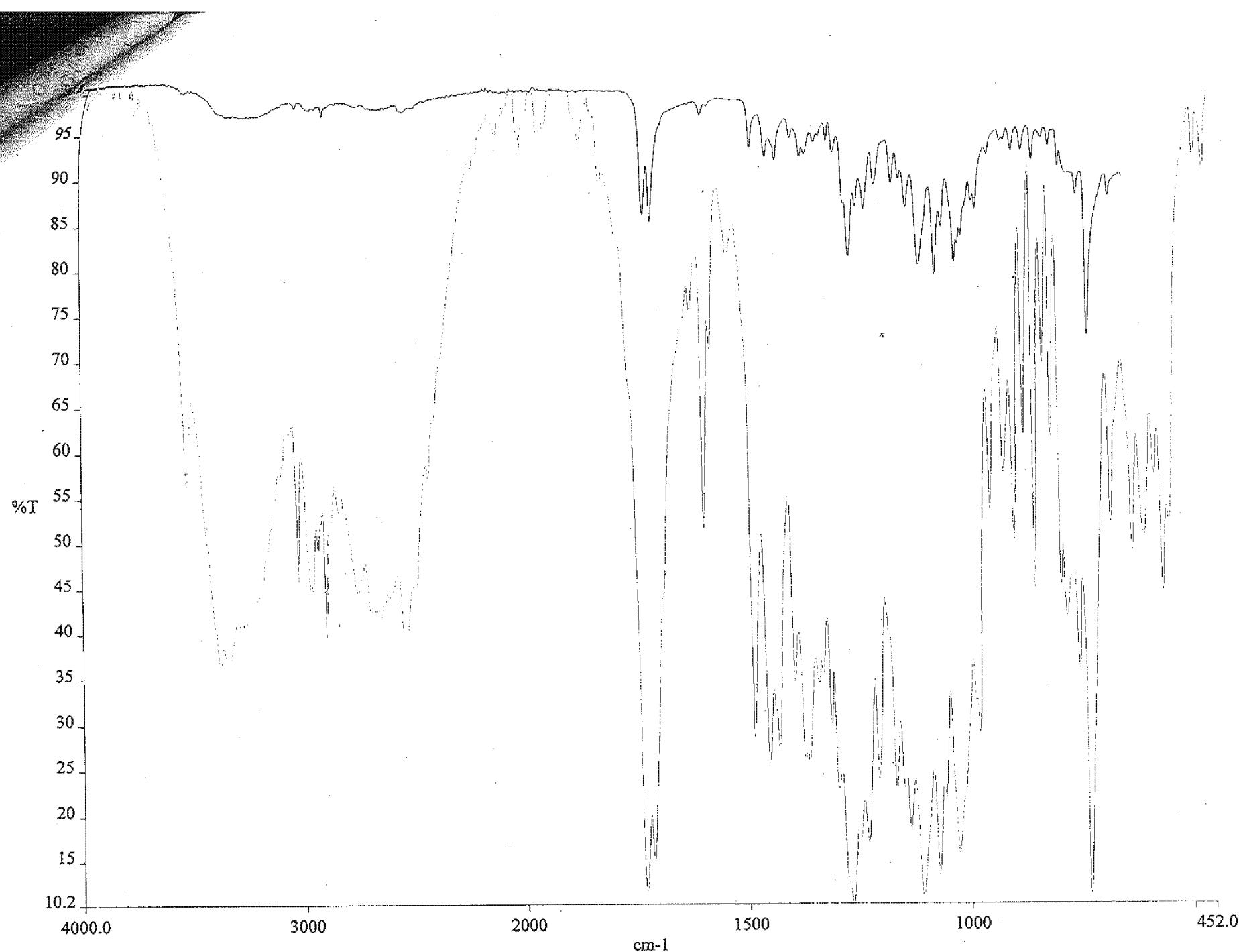
*Euclidean Hit List:*

0.860 DL1330 80% COCAINE HCl/20% LACTOSE IN KBr (+/- 3%)  
0.845 DL1372 COCAINE HCl (ANHYDROUS) IN KBr FROM MALLINCKRODT LOT TVE-FIRST SAMPLE  
0.842 DL1329 90% COCAINE HCl/10% LACTOSE IN KBr (+/- 3%)

Selected Range: 4000.00 - 652.00 cm<sup>-1</sup>

No Blank Regions:

The Georgia State Crime Laboratory

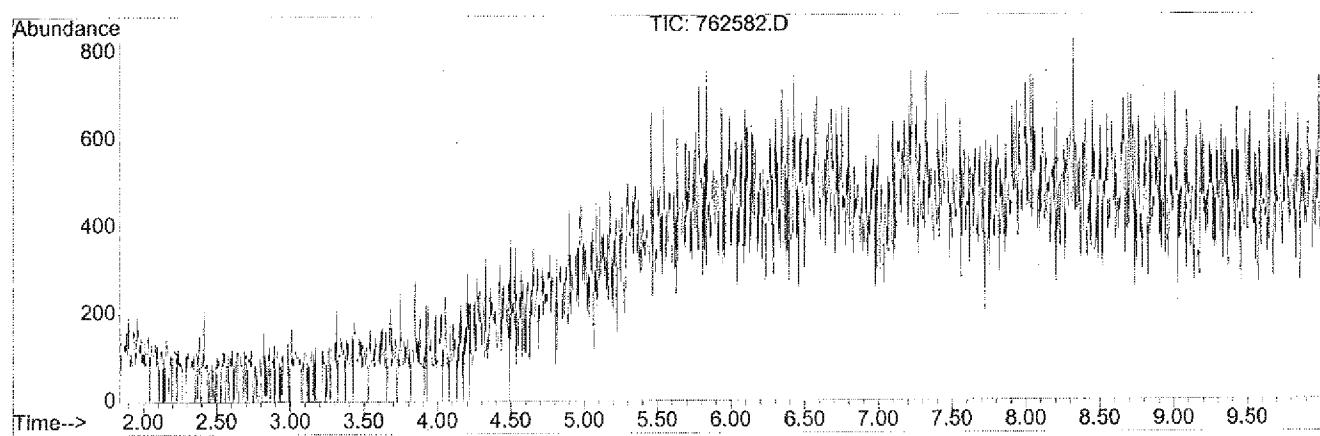


c:\pel\_data\spectra\████████.sp - new bedford.sp - ASD 12-28-10  
dl1330.sp - DL1330 80% COCAINE HCl/20% LACTOSE IN KBr (+/- 3%)

VKAC  
10/25/11

## Information from Data File:

File Name : F:\Q4-2010\SYSTEM4\12\_23\_10\762582.D  
Operator : ASD/KAC  
Date Acquired : 24 Dec 2010 8:18  
Sample Name : BLANK  
Submitted by : ASD  
Vial Number : 2  
AcquisitionMeth: DRUGS  
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

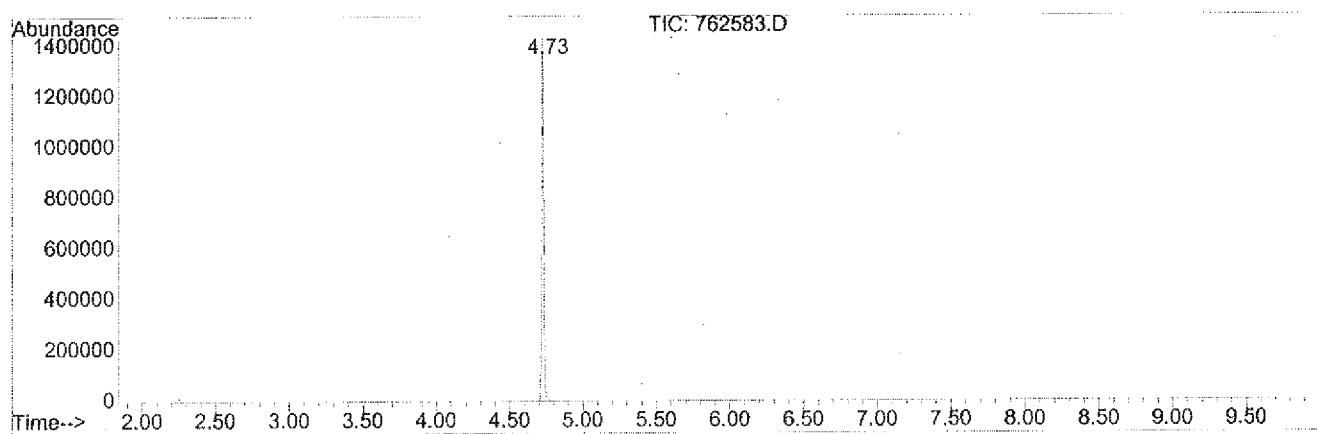
# Area Percent / Library Search Report

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**Information from Data File:**

File Name : F:\Q4-2010\SYSTEM4\12\_23\_10\762583.D  
Operator : ASD/KAC  
Date Acquired : 24 Dec 2010 8:31  
Sample Name : COCAINE STD  
Submitted by : ASD  
Vial Number : 15  
AcquisitionMeth: DRUGS  
Integrator : RTE

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Ret. Time	Area	Area %	Ratio %
4.726	1338605	100.00	100.00

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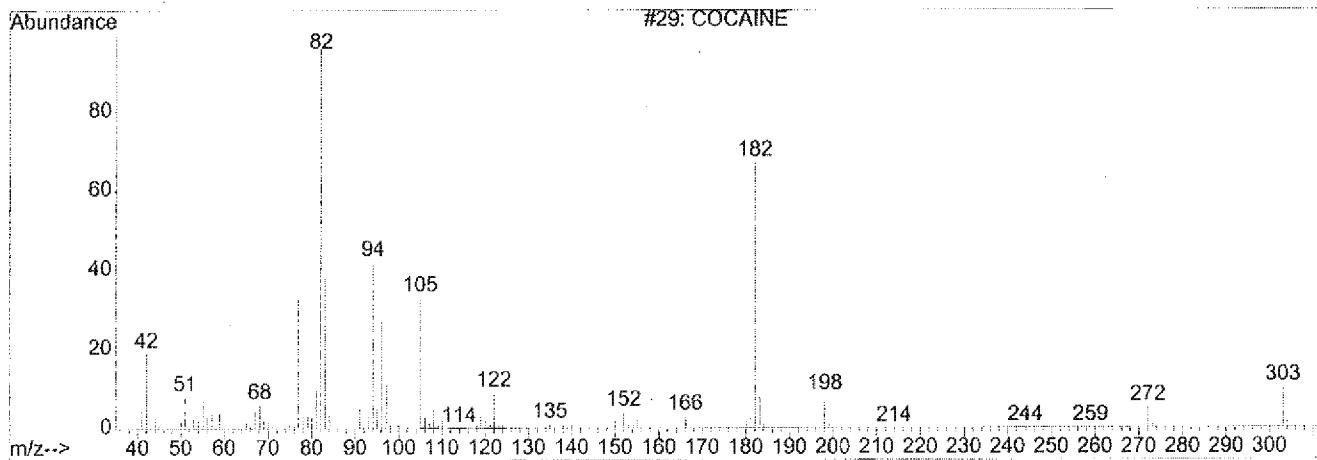
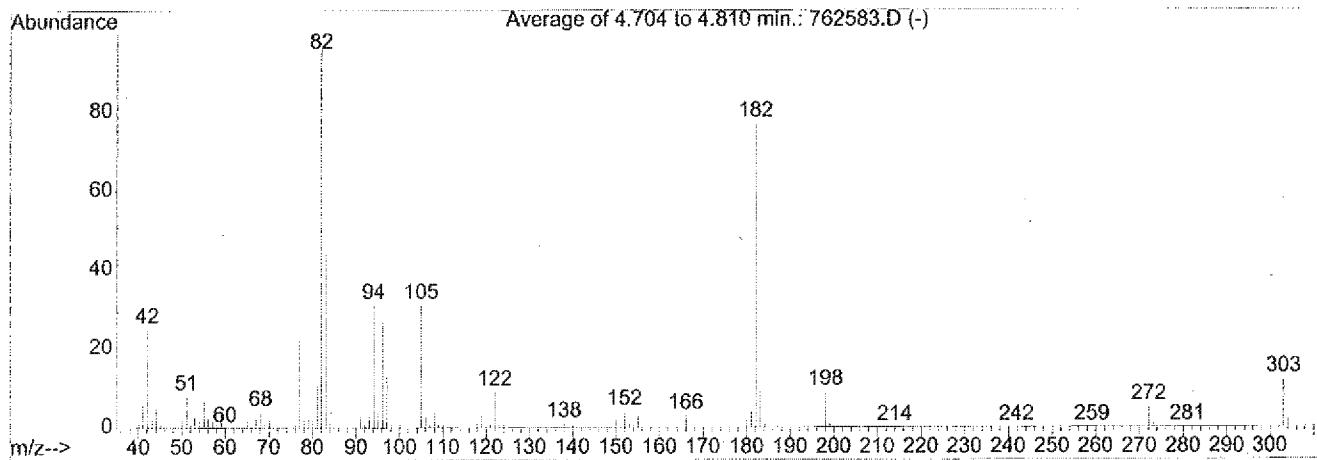
# Area Percent / Library Search Report

**Information from Data File:**

File Name : F:\Q4-2010\SYSTEM4\12\_23\_10\762583.D  
Operator : ASD/KAC  
Date Acquired : 24 Dec 2010 8:31  
Sample Name : COCAINE STD  
Submitted by : ASD  
Vial Number : 15  
AcquisitionMeth: DRUGS  
Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90  
C:\DATABASE\PMW\_TOX2.L Minimum Quality: 90  
C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
1	4.73	C:\DATABASE\SLI.L COCAINE	000050-36-2	99



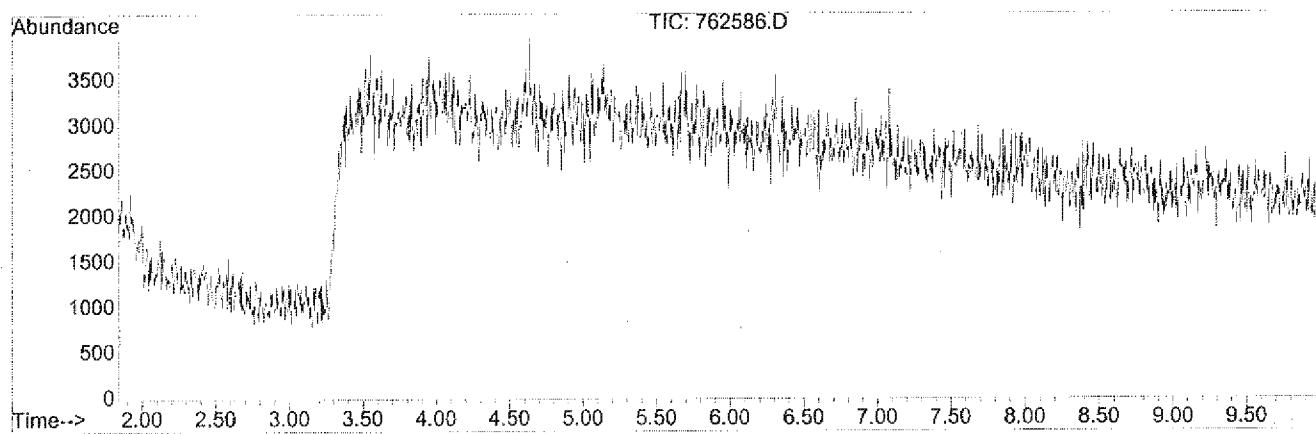
# Area Percent / Library Search Report

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**Information from Data File:**

File Name : F:\Q4-2010\SYSTEM4\12\_23\_10\762586.D  
Operator : ASD/KAC  
Date Acquired : 24 Dec 2010 9:12  
Sample Name : BLANK  
Submitted by : ASD  
Vial Number : 2  
AcquisitionMeth: DRUGS  
Integrator : RTE

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Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

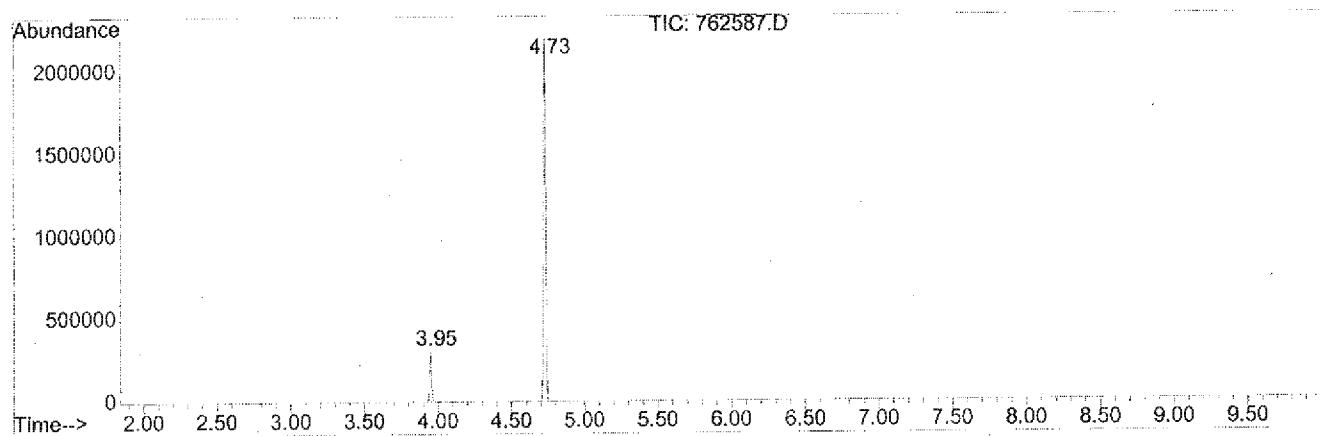
# Area Percent / Library Search Report

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**Information from Data File:**

File Name : F:\Q4-2010\SYSTEM4\12\_23\_10\762587.D  
Operator : ASD/KAC  
Date Acquired : 24 Dec 2010 9:26  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 87  
AcquisitionMeth: DRUGS  
Integrator : RTE

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Ret. Time	Area	Area %	Ratio %
3.948	270226	10.59	11.84
4.731	2282252	89.41	100.00

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# Area Percent / Library Search Report

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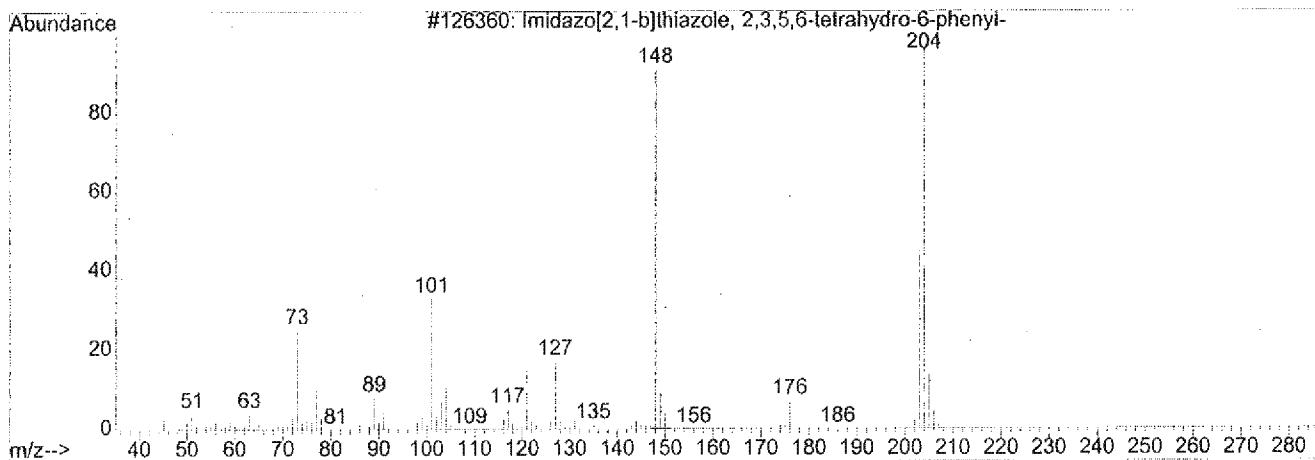
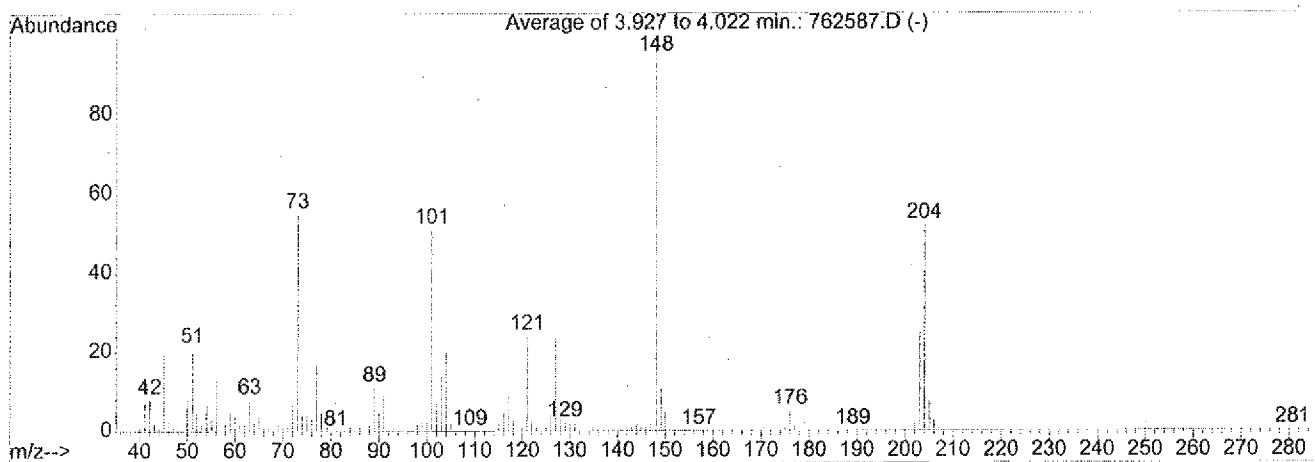
**Information from Data File:**

File Name : F:\Q4-2010\SYSTEM4\12\_23\_10\762587.D  
Operator : ASD/KAC  
Date Acquired : 24 Dec 2010 9:26  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 87  
AcquisitionMeth: DRUGS  
Integrator : RTE

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Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90  
C:\DATABASE\PMW\_TOX2.L Minimum Quality: 90  
C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
1	3.95	C:\DATABASE\NIST98.L		
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	006649-23-6	99
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	006649-23-6	99
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	006649-23-6	97



# Area Percent / Library Search Report

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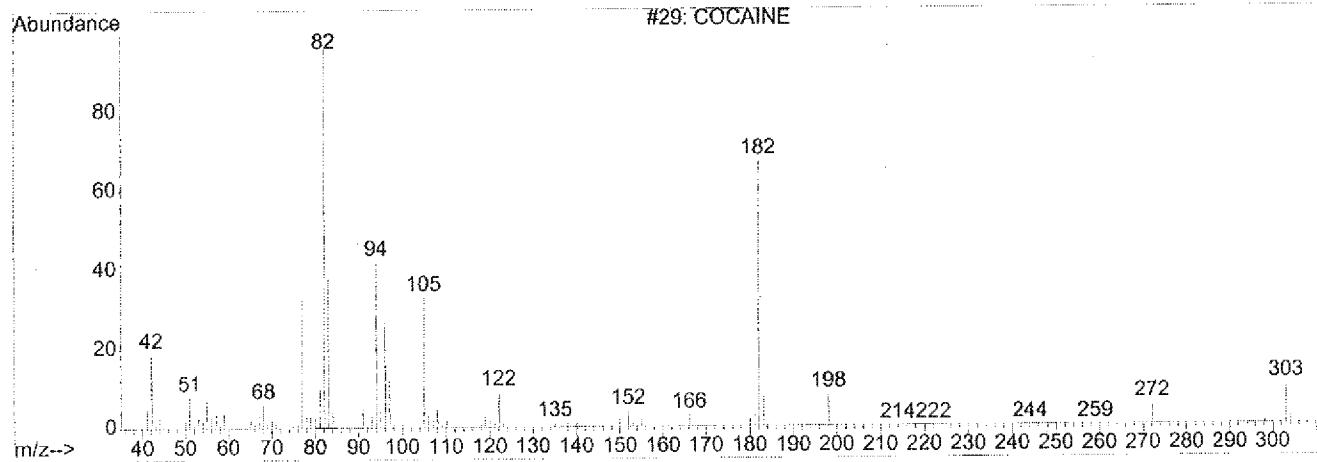
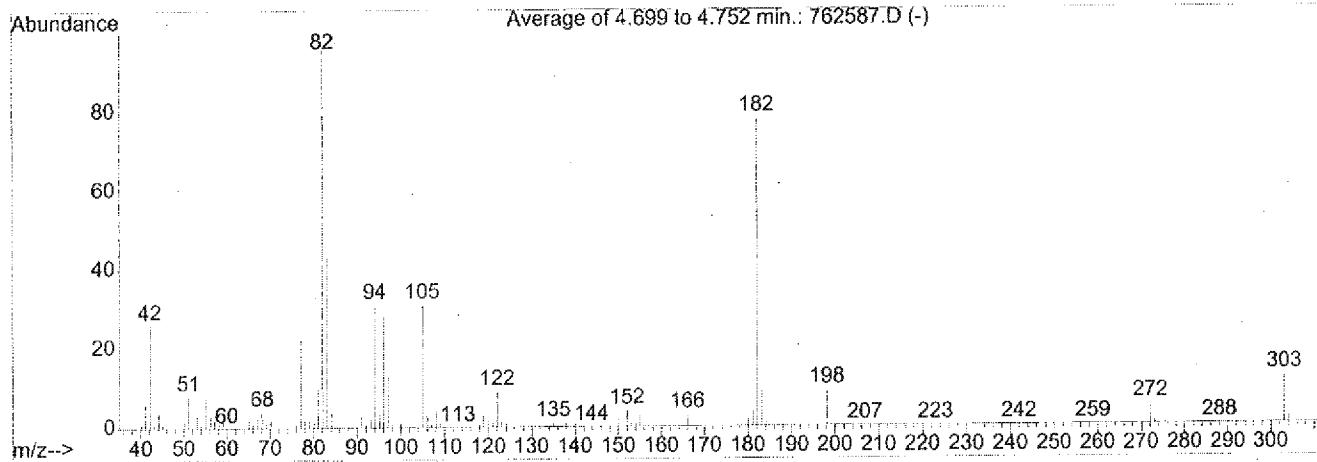
**Information from Data File:**

File Name : F:\Q4-2010\SYSTEM4\12\_23\_10\762587.D  
Operator : ASD/KAC  
Date Acquired : 24 Dec 2010 9:26  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 87  
AcquisitionMeth: DRUGS  
Integrator : RTE

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Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90  
C:\DATABASE\PMW\_TOX2.L Minimum Quality: 90  
C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
2	4.73	C:\DATABASE\SLI.L COCAINE	000050-36-2	99



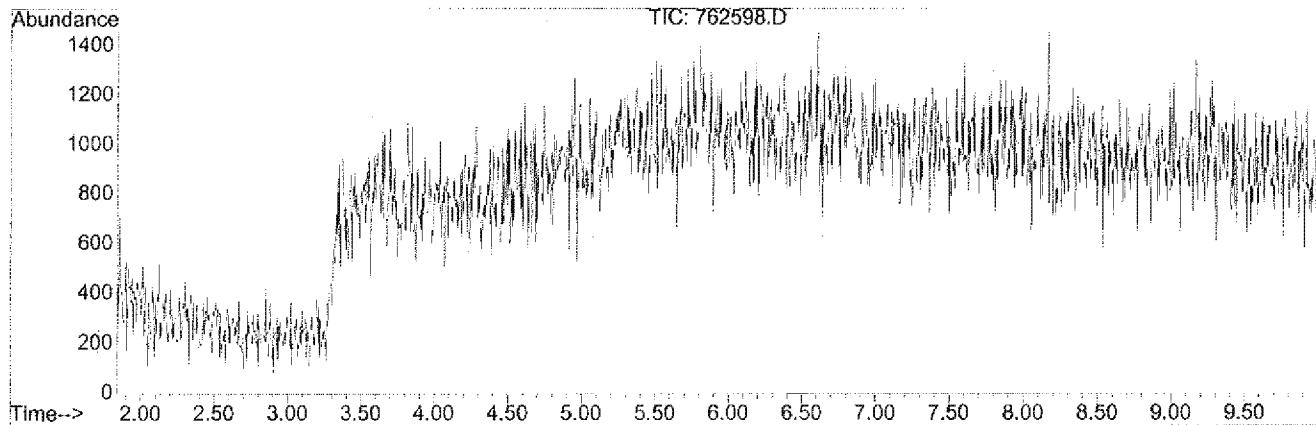
# Area Percent / Library Search Report

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File Name : F:\Q4-2010\SYSTEM4\12\_23\_10\762598.D  
Operator : ASD/KAC  
Date Acquired : 24 Dec 2010 11:56  
Sample Name : BLANK  
Submitted by : ASD  
Vial Number : 2  
AcquisitionMeth: DRUGS  
Integrator : RTE

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Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

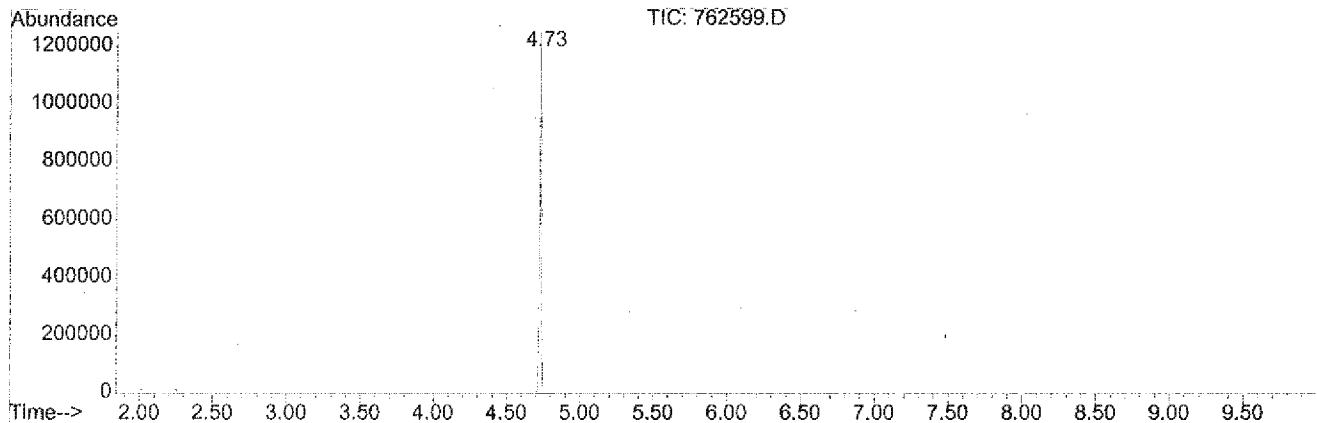
# Area Percent / Library Search Report

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## Information from Data File:

File Name : F:\Q4-2010\SYSTEM4\12\_23\_10\762599.D  
Operator : ASD/KAC  
Date Acquired : 24 Dec 2010 12:10  
Sample Name : COCAINE STD  
Submitted by : ASD  
Vial Number : 15  
AcquisitionMeth: DRUGS  
Integrator : RTE

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Ret. Time	Area	Area %	Ratio %
4.726	1066565	100.00	100.00

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# Area Percent / Library Search Report

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**Information from Data File:**

File Name : F:\Q4-2010\SYSTEM4\12\_23\_10\762599.D  
Operator : ASD/KAC  
Date Acquired : 24 Dec 2010 12:10  
Sample Name : COCAINE STD  
Submitted by : ASD  
Vial Number : 15  
AcquisitionMeth: DRUGS  
Integrator : RTE

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Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90  
C:\DATABASE\PMW\_TOX2.L Minimum Quality: 90  
C:\DATABASE\NIST98.L

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PK#	RT	Library/ID	CAS#	Qual
1	4.73	C:\DATABASE\SLI.L COCAINE	000050-36-2	99

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